Ecology and Natural Resouces Management Program Standards Criticality Survey

1. Personal Qualities and People Skills				,
Answer Choices	Nice to Know	Need to Know	Critical to Know	Rating Average
Demonstrate a positive work ethic by coming to				7 tt et age
work every day on time, a willingness to take direction, and motivation to accomplish the task				
at hand.	0	0	16	3
Demonstrate integrity by abiding by workplace policies and laws and demonstrating honesty and				
reliability.	0	2	14	2.88
Demonstrate teamwork skills by contributing to the success of the team, assisting others, and				
requesting help when needed.	0	4	12	2.75
Demonstrate positive self-representation skills by dressing appropriately and using language and manners suitable for the workplace.				
	2	8	6	2.25
Demonstrate diversity awareness by working well with all customers and co-workers.	2	5	9	2.44
Demonstrate conflict-resolution skills by negotiating diplomatic solutions to interpersonal				
and workplace issues.	1	6	9	2.5
Demonstrate creativity and resourcefulness by contributing new ideas and working with initiative.				
	0	10	6	2.38
			Answered	16
			Skipped	0

2. Professional Knowledge and Skills Nice to Need to Critical Rati						
Answer Choices	Know	Know	to Know	Average		
Demonstrate effective speaking and listening						
skills by communicating effectively with						
customers and employees and following						
directions.	1	6	9	2.5		
Demonstrate effective reading and writing skills						
by reading and interpreting workplace documents						
and writing clearly.	2	7	7	2.31		
Demonstrate critical-thinking and problem-solving						
skills by analyzing and resolving problems that						
arise in completing assigned tasks.						
Description to the although the best are and a state of the	0	5	11	2.69		
Demonstrate healthy behaviors and safety skills						
by following safety guidelines and managing personal health.		_	_	0.04		
·	2	/	1	2.31		
Demonstrate understanding of workplace organizations, systems, and climates by						
identifying "big picture" issues and fulfilling the						
mission of the workplace.	2	9	5	2.19		
Demonstrate lifelong-learning skills by continually		9	5	2.18		
acquiring new industry-related information and						
improving professional skills.	3	8	5	2.13		
Demonstrate job acquisition and advancement	J	0	0	2.10		
skills by preparing to apply for a job and seeking						
promotion.	5	6	5	2		
Demonstrate time, task, and resource						
management skills by organizing and						
implementing a productive plan of work.	0	7	9	2.56		
Demonstrate mathematical skills by using						
mathematical reasoning to accomplish tasks.	4	9	3	1.94		
Demonstrate customer service skills by						
identifying and addressing the needs of all						
customers and providing helpful, courteous, and						
knowledgeable service.	2	11	3	2.06		
Answered						
			Skipped	0		

3. Technology Knowledge and Skills				
Answer Choices	Nice to Know	Need to Know	Critical to Know	Rating Average
Demonstrate proficiency with job-specific technologies by selecting and safely using technological resources to accomplish work responsibilities in a productive manner.	1	9	6	2.31
Demonstrate proficiency with information technology by using computers, file management techniques, and software/programs effectively.			_	
Demonstrate proper Internet use and security by using the Internet appropriately for work.	0	9	7	2.44 2.19
Demonstrate proficiency with telecommunications by selecting and using appropriate devices, services, and applications.				
	3	11	2	1.94
Answered				
			Skipped	0

CONTENT STANDARD 1.0: EXPLORE NATURAL RESOURCE SCIENCE AND MANAGEMENT

Performance Standard 1.1: Investigate The Relationship Between Natural Resources And Society, Including Conflict Management

	And boolety, including commet management				
	Answer Choices	Nice to Know	Need to Know	Critical to Know	Rating Average
1.1.1.	Define natural resource management				
		3	6	5	2.14
1.1.2.	Summarize the history of natural resource				
	conservation and policies	7	6	1	1.57
1.1.3.	List and compare major natural resource management agencies, industries and				
	organizations	8	5	1	1.50
1.1.4.	Describe human dependency and demands on natural resources	5	7	2	1.79
	Explain natural resource conservation. Investigate the effects of multiple uses of natural resources (e.g., recreation, mining, agriculture, forestry, public lands grazing, etc.)				
		2	8	4	2.14

1.1.6.	Explore societal issues and conflicts related to				
	natural resource management	4	5	5	2.07
				Answered	14
				Skipped	2

	Performance Standard 1.2: Explain Interrelationships Between Natural Resources And Humans In Managing Natural Environments					
	Answer Choices	Nice to Know	Need to Know	Critical to Know	Rating Average	
1.2.1.	Identify the demands of population growth on natural resources and the environment	5	3	6	2.07	
1.2.2.	Examine the use and management of renewable and nonrenewable resources	5	5	4	1.93	
	Describe the role of individuals in stewardship of the environment	3	7	4	2.07	
1.2.4.	the conservation or preservation of natural resources	5	6	3	1.86	
				Answered	14	
				Skipped	2	

	CONTENT STANDARD 2.0: INVESTIGATE ECOLOGICAL CONCEPTS AND SCIENTIFIC							
	PRINCIPLES RELATED TO NATURAL RESOURCE SYSTEMS							
	Performance Standard 2.1: Explore Ecological	Performance Standard 2.1: Explore Ecological Principles In Natural Resource						
	Management							
	Answer Choices	Nice to Know	Need to Know	Critical to Know	Rating Average			
2.1.1.	Define ecosystems and biomes and identify ecoregions of Idaho	4	6	4	2.00			
2.1.2.	Identify natural processes that govern ecosystems over time	4	5	5	2.07			
2.1.3.	Describe the interdependence of organisms within an ecosystem (i.e., food chains and webs)							
		3	6	5	2.14			
2.1.4.	Investigate the processes associated with ecological succession	4	6	4	2.00			
2.1.5.	Explain the importance of biodiversity							
		5	5	4	1.93			
				Answered	14			

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	Performance Standard 2.2: Explore Properties Of Soil					
	Answer Choices	Nice to Know	Need to Know	Critical to Know	Rating Average	
2.2.1.	Summarize soil formation factors					
		4	7	3	1.93	
2.2.2.	Identify soil texture					
		5	5	4	1.93	
2.2.3.	Describe soil conservation practices					
		5	6	3	1.86	
2.2.4.	Analyze and interpret soil data					
		6	6	2	1.71	
			_	Answered	14	
				Skipped	2	

	Performance Standard 2.3: Explore Principles Of Hydrology					
	Answer Choices	Nice to	Need to	Critical	Rating	
		Know	Know	to Know	Average	
	Define watersheds and explain their hydrological		_	_		
	and ecological function	3	6	5	2.14	
	Discriminate between point and nonpoint					
	pollution sources	6	5	3	1.79	
2.3.3.	Analyze and interpret water quality data					
		5	6	3	1.86	
	Describe the function of wetlands and importance of wetland management	3	6	5	2.14	
2.3.5.	Identify laws and regulations governing water					
		4	7	3	1.93	
				Answered	14	
				Skipped	2	

`	CONTENT STANDARD 3.0: EXPLORE PRINCIPLES OF RANGELAND MANAGEMENT					
	Performance Standard 3.1: Identify Rangeland	Types Ar	nd Manage	ement Prac	ctices	
	Answer Choices	Nice to Know	Need to Know	Critical to Know	Rating Average	
	Define rangelands and identify key					
	characteristics	4	6	4	2.00	
3.1.2.	Identify major rangeland types in Idaho					
		6	5	3	1.79	

3.1.3.	Compare public and private management of				
	rangelands	6	4	4	1.86
3.1.4.	Identify multiple uses of rangelands				
		6	4	4	1.86
	Identify laws, policies and managing entities of				
	rangelands	4	6	4	2.00
3.1.6.	Identify impacts of use on rangelands				
		4	6	4	2.00
		·		Answered	
				Skipped	

	Performance Standard 3.2: Understanding The Historic, Environmental, Social And Economic Importance Of Idaho Rangelands						
	Answer Choices	Nice to Know	Need to Know	Critical to Know	Rating Average		
	Understand how rangelands have been important to humans throughout time	7	7	0	1.50		
3.2.2.	Identify the ecological services provided by rangelands	3	9	2	1.93		
3.2.3.	Recognize the value of rangelands to society	5	7	2	1.79		
3.2.4.	Understand the importance of working rangelands for the economic livelihood of Idaho and other parts of the country and world						
		5	6	3	1.86		
				Answered Skipped	14		

	Performance Standard 3.3: Identify Common Idaho Rangelands Plants						
	Answer Choices	Nice to Know	Need to Know	Critical to Know	Rating Average		
3.3.1.	Identify morphological characteristics of rangeland plants	6	6	2	1.71		
3.3.2.	Use a dichotomous key to identify rangeland plants	7	4	3	1.71		
3.3.3.	Assemble a plant collection	11	3	0	1.21		

			Skipped	2
			Answered	
Define native, introduced, invasive, noxious and poisonous plants	3	6	5	2.14
Identify important Idaho rangeland plants and evaluate their use by animals	4	8	2	1.86

	Performance Standard 3.4: Apply Rangeland Management Practices					
	Answer Choices	Nice to Know	Need to Know	Critical to Know	Rating Average	
3.4.1.	Identify key components of a management plan					
		4	8	2	1.86	
	Identify rangeland management tools and					
	techniques	5	7	2	1.79	
3.4.3.	Use rangeland measurement tools					
		7	5	2	1.64	
3.4.4.	Conduct a rangeland inventory and interpret data					
		8	3	3	1.64	
3.4.5.	Determine stocking rates based on animal					
	demand and forage supply	5	7	2	1.79	
3.4.6.	Discuss the impacts of dynamic forces of change					
	on rangelands (e.g. fire, weather, insects,	5	5	4	1.93	
				Answered		
				Skipped	2	

	CONTENT STANDARD 4.0: EXAMINE FOREST RESOURCES AND MANAGEMENT						
	Performance Standard 4.1: Identify Forest Types And Management Practices						
	Answer Choices	Nice to	Need to	Critical	Rating		
	Allswer Choices	Know	Know	to Know	Average		
4.1.1.							
	Define forests and identify key characteristics	2	7	5	2.21		
4.1.2.							
	Identify major forest types in Idaho	2	7	5	2.21		
4.1.3.							
	Assess different methods of forest management	3	7	4	2.07		
4.1.4.							
	Compare public and private management of forests	3	6	5	2.14		

4.1.5.					
	Identify multiple uses of forests	2	8	4	2.14
4.1.6.	Identify laws, policies and managing entities of forests	1	9	4	2.21
4.1.7.	Identify impacts of use on forests	2	6	6	2.29
				Skipped	

	Performance Standard 4.2: Understanding The Historic, Environmental, SocialAnd				
	Answer Choices	Nice to Know	Need to Know	Critical to Know	Rating Average
	Understand how forests have been important to humans throughout time	6	6	2	1.71
	Identify the ecological services provided by forests	3	8	3	2.00
4.2.3.	Recognize the value of forests to society	4	6	4	2.00
	Understand the important of working forests for the economic livelihood of Idaho and other parts				
	of the country and world	3	6	5 Answered	2.14 14
				Skipped	2

	Performance Standard 4.3: Identify Common Idaho Forest Plants					
	Answer Choices	Nice to	Need to	Critical	Rating	
	Allawer offoldes	Know	Know	to Know	Average	
	Identify morphological characteristics of forest					
	plants	5	5	4	1.93	
	Use a dichotomous key to identify trees, shrubs					
	and other forest plants	4	5	5	2.07	
4.3.3.	Assemble a plant collection					
		9	4	1	1.43	
4.3.4.	Identify important Idaho forest plants and					
	evaluate their use by animals	5	5	4	1.93	
4.3.5.	Define native, introduced, invasive, noxious and					
	poisonous plants	2	7	5	2.21	
				Answered	14	
				Skipped	2	

	Performance Standard 4.4: Apply Forest Management Practices					
	Answer Choices	Nice to Know	Need to Know	Critical to Know	Rating Average	
4.4.1.	Identify key components of a management plan					
		2	6	6	2.29	

4.4.2.	Identify forest management tools and techniques				
		2	7	5	2.21
4.4.3.	Use forest measurement tools				
		3	7	4	2.07
4.4.4.	Conduct a forest inventory and interpret data				
		6	4	4	1.86
4.4.5.	Define silviculture and compare different timber				
	harvest systems	5	5	4	1.93
4.4.6.	Discuss impacts of dynamic forces of change				
	(e.g. fire, weather, insects, disease, people,				
	animals, invasive species, etc.) on forests and				
	identify management strategies	3	4	7	2.29
				Answered	14
				Skipped	2

	CONTENT STANDARD 5.0: EXPLORE FIRE ECOLOGY AND MANAGEMENT					
	Performance Standard 5.1: Explore The Effects Of Fire On Rangeland And Forest					
	Ecosystems					
	Answer Choices	Nice to Know	Need to Know	Critical to Know	Rating Average	
5.1.1.	Explain the significance of each of the components of the "fire triangle"	3	7	4	2.07	
5.1.2.	Discuss the fire behavior triangle (fuel, weather, topography)	3	7	4	2.07	
5.1.3.	Interpret the factors affecting fire frequency in Idaho past, present and future	4	3	7	2.21	
5.1.4.	Describe the social, economic and ecological effects of wildland fire	3	5	6	2.21	
5.1.5.	Examine the role of fuel management and the relationship between fuel load and fire effects in rangeland and forest ecosystems	0	E	7	2.20	
	Tangeland and lorest ecosystems	2	5	/ Answered	2.36 14	
				Skipped		

CONTENT STANDARD 6.0: UNDERSTAND THE IMPORTANCE AND APPLICATION OF Performance Standard 6.1: Investigate GPS/GIS Systems And Their Applications

Answer Choices	Nice to Know	Need to Know	Critical to Know	Rating Average
Define the uses of Geographic Information Systems (GIS) and spatial analysis as it applies to natural resource management				
G	4	6	4	2.00
Describe the purpose and function of a Global Positioning System (GPS)	3	8	3	2.00
Demonstrate the ability to use a GPS unit by navigating and collecting waypoints	3	6	5	2.14
			Answered	14
			Skipped	2

	Performance Standard 6.2: Demonstrate The Use Of Land Management Maps				
	Answer Choices	Nice to	Need to	Critical	Rating
	Allswei Glioloes	Know	Know	to Know	Average
6.2.1.	Use legal descriptions to identify locations and				
	acreage	3	5	6	2.21
6.2.2.	Identify symbols on topographical maps				
		2	6	6	2.29
6.2.3.	Predict terrain based on topographical maps				
		1	8	5	2.29
6.2.4.	Demonstrate the ability to find GPS locations on				
	a topographic map	2	8	4	2.14
				Answered	14
				Skipped	2

Performance Standard 7.1: Explore The Importance And Distribution of Fish And

CONTENT STANDARD 7.0: INVESTIGATE FISH AND WILDLIFE ECOLOGY

Wildlife Resources In Idaho

	Answer Choices	Nice to Know	Need to Know	Critical to Know	Rating Average
7.1.1.	Identify the seven categories of wildlife				
		5	5	2	1.75
7.1.2.	Connect the distribution of wildlife associated				
	with private and public land	6	7	0	1.54
	Describe the importance of wildlife, including indigenous and migratory species, their physical and behavioral characteristics, habitat and				
	management	5	4	4	1.92

7.1.4.	List impacts on wildlife habitat				
		3	6	4	2.08
7.1.5.	Describe techniques used in harvesting of wildlife				
		8	3	2	1.54
7.1.6.	Summarize appropriate outdoor safety practice				
		6	4	3	1.77
7.1.7.	Describe techniques of wildlife habitat				
	improvement	4	6	3	1.92
				Answered	13
				Skipped	3

Performance Standard 7.2: Understand Wildlife Management					
Answer Choices	Nice to Know	Need to Know	Critical to Know	Rating Average	
Identify the agencies and organizations					
associated with wildlife management	4	8	1	1.77	
Explore the role of USDA - Wildlife Services, DOI – US Fish and Wildlife Service and Idaho Fish & Game concerning wildlife management					
	5	5	3	1.85	
			Answered	13	
			Skipped	3	

	CONTENT STANDARD 8.0: EXAMINE MINERAL AND ENERGY RESOURCES MANAGEMENT							
	Performance Standard 8.1: Examine Mineral Re	esources	And Mana	agement				
8.1.1.	Identify local mineral resources							
		8	4	1	1.46			
8.1.2.	Summarize the impact of mineral resources to							
	society	7	5	1	1.54			
8.1.3.	Compare the various practices for obtaining							
	mineral resources	7	4	2	1.62			
8.1.4.	Describe the impact of mining practices on the							
	environment	5	3	5	2.00			
8.1.5.	Compare processes for reclaiming areas where							
	minerals have been extracted	7	4	2	1.62			
				Answered	13			
				Skipped	3			

	Performance Standard 8.2: Recognize The Types And Importance Of Energy Resources					
8.2.1.	Differentiate between renewable and					
	nonrenewable energy resources	6	4	3	1.77	
8.2.2.	Investigate types of renewable resources					
		7	4	2	1.62	
8.2.3.	Compare types of electrical power generation					
		7	4	2	1.62	
8.2.4.	Analyze positive and negative impact of energy					
	development on the environment	4	7	2	1.85	
				Answered	13	
				Skipped	3	

	CONTENT STANDARD 9.0: EXPLORE CAREER OPPORTUNITIES IN THE NATURAL RESOURCE INDUSTRY					
	Performance Standard 9.1: Understand Employ	ment Fie	elds In The	Natural R	esource	
	Industry					
9.1.1.	List and describe the types of employment opportunities in natural resource management	7	2	4	1.77	
	Explore education and training for different natural resource management careers	5	4	4	1.92	
	Describe the process of choosing a career path in the natural resource management industry	5	4	4	1.92	
				Answered	13	
				Skipped	3	

	CONTENT STANDARD 10.0: PARTICIPATE IN LEADERSHIP TRAINING THROUGH MEMBERSHIP IN A STUDENT LEADERSHIP ORGANIZAITON						
	PERFORMANCE STANDARD 10.1: Recognize The Traits Of Effective Leaders And						
	Participate In Leadership Training Through Inv	olvemen	t In A Stud	lent Leadei	rship		
	Organization						
10.1.1.	Expand leadership experience by serving as a						
	chapter officer or on a committee	8	2	3	1.62		
10.1.2.	Exhibit leadership skills by demonstrating proper						
	parliamentary procedure	7	2	4	1.77		
10.1.3.	Participate in a career development event at the						
	local level or above	7	2	4	1.77		
				Answered	13		
				Skipped	3		

	CONTENT STANDARD 11.0: DESCRIBE THE RELATIONSHIP BETWEEN A SUPERVISED AGRICULTURAL EXPERIENCE (SAE) AND PREPARATION OF STUDENTS FOR A CAREER IN AGRICULTURE						
	Performance Standard 11.1: Maintain A Supervised Agricultural Experience						
11.1.1.	Accurately maintain SAE record books	9	1	3	1.54		
11.1.2.	Apply for a proficiency award related to the SAE	10	1	2	1.38		
11.1.3.	Actively pursue necessary steps to receive higher	9	3	1	1.38		
	Answered						
				Skipped	3		